

REMARKS

I. Introduction

In response to the pending Office Action, Applicants have cancelled claims 1-9, without prejudice, amended claim 10 so as to be in independent format, and added new claims 14-36 so as to clarify the subject matter of the present invention and clearly distinguish the present invention over the cited prior art. No new matter has been added.

Applicants note with appreciation the indication of allowable subject matter being recited by claim 10. It is respectfully submitted that, as amended, claim 10 and the claims dependent thereon are now in condition for allowance.

For the reasons set forth below, it is respectfully submitted that new claims 15-36 are also in condition for allowance.

II. New Claims 15-36

The following presents a brief discussion of how the newly added claims distinguish over the cited prior art. It is noted that the distinctions set forth below are not intended to be exhaustive. Additional distinctions between the prior art references and the claims may exist.

Claims 15 and 33 recite in-part that “a plurality of electrode pads of the at least two first and second I/O cells included in the first I/O group are configured in a zigzag pad arrangement so as to form inner and outer pad arrays” and that “said electrode pads included in the second I/O group are configured to form only outer pad array.” None of the cited prior art discloses the foregoing feature of claims 15 and 33. For example, referring to USP No. 6,836,026 to Ali, as shown in Fig. 5, while Ali discloses a zigzag electrode pad pattern arrangement, the core logic 58

area does not have any electrode pads. Thus, for at least this reason, Ali does not disclose or suggest the present invention as recited by claims 15 and 33.

Claim 20 recites in-part that “each inner electrode pad of each of the at least two fourth I/O cells included in the second I/O group is smaller than each inner electrode pad of each of the at least two first I/O cells included in the first I/O group. Referring to Ali, all of the electrode pads are the same size.

Claim 24 recites in-part that “a fourth interconnect pattern electrically connected to an inner electrode pad of a corresponding one of the at least two fourth I/O cells, wherein the carrier does not include any interconnect pattern electrically connected to an another inner electrode pad of a corresponding one of the at least two fourth I/O cells”. At a minimum, none of the cited prior art appears to disclose this feature recited by claim 24.

Claim 27 recites in-part that “the carrier includes an interconnect pattern electrically connected to at least two of the at least two inner electrode pads of the at least two fourth I/O cells”. At a minimum, none of the cited prior art appears to disclose this feature recited by claim 27.

Claim 30 recites in-part that “the carrier includes an interconnect pattern electrically connected to both an inner electrode pad of the at least two inner electrode pads of the at least two fourth I/O cells and an inner electrode pad of the at least two inner electrode pads of the at least two eighth I/O cells.” At a minimum, none of the cited prior art appears to disclose this feature recited by claim 30.

For all of the foregoing reasons, it is respectfully submitted that new claims 15-36 are patentable over the cited prior art references.

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III. Conclusion

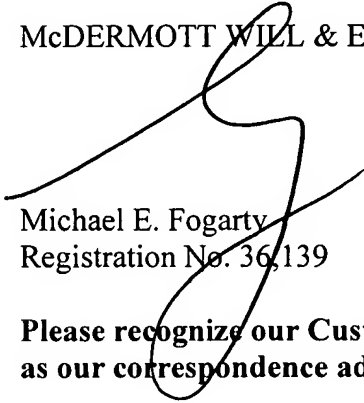
Having fully and completely responded to the pending Office Action, it is urged that the application is in condition for allowance, an indication of which is respectfully solicited.

If there are any outstanding issues that might be resolved by an interview or an Examiner's amendment, the Examiner is requested to call Applicants' attorney at the telephone number shown below.

To the extent necessary, a petition for an extension of time under 37 C.F.R. § 1.136 is hereby made. Please charge any shortage in fees due in connection with the filing of this paper, including extension of time fees, to Deposit Account 500417 and please credit any excess fees to such deposit account.

Respectfully submitted,

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